Application No. 10/817,045

Reply to Office Action of May 30, 2007

Docket No.: 612188004US

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A system for sharing a hierarchical document, the hierarchical document having a node, comprising:

- a component that receives an indication of a privilege for the node, the privilege indicating access rights for the node and determined based on access rights for another node of the hierarchical document, the indication including a holder of the privilege;
- a component that receives an access request to the node from a requestor; and
- a component that handles the received access request, wherein the handling includes determining whether the requestor is a holder of a privilege that is appropriate for the received access request.
- 2. (Original) The system of claim 1 wherein the holder of the privilege is a user.
- (Original) The system of claim 2 wherein the holder is an application program.
- (Original) The system of claim 2 wherein the holder is an operator of an application program.
- (Original) The system of claim 1 wherein the holder is a client computing device.
- 6. (Original) The system of claim 1 wherein the system receives an indication of the holder from an operating system.
- 7. (Original) The system of claim 1 wherein the system authenticates the holder.

Application No. 10/817,045

Reply to Office Action of May 30, 2007

(Original) The system of claim 1 wherein the received access request is a mutation relating to a node.

Docket No : 612188004US

- 9 (Original) The system of claim 8 wherein the indication of an access request indicates the node
- (Original) The system of claim 8 wherein the privilege is appropriate for the 10. received access request when the mutation and privilege are both Insert.
- (Original) The system of claim 8 wherein the privilege is appropriate for the 11. received access request when the mutation and privilege are both Update.
- (Original) The system of claim 8 wherein the privilege is appropriate for the 12. received access request when the mutation and privilege are both Delete.
- 13. (Original) The system of claim 1 wherein the privilege is appropriate for the received access request when the received access request is Read and the privilege is Insert.
 - 14. (Original) The system of claim 1 wherein the holder holds multiple privileges.
- (Original) The system of claim 1 wherein the holder holds the privilege on 15. descendants of the node merely by holding a privilege on the node.
 - 16. (Original) The system of claim 15 wherein the privilege is Delete.
- (Original) The system of claim 1 wherein the holder holds a different 17 privilege on attributes of the node.

Application No. 10/817.045 Docket No.: 612188004US

(Original) The system of claim 17 wherein the privilege is Insert and the 18.

different privilege is Read.

19. (Original) The system of claim 17 wherein the holder does not hold the

privilege on descendants of the node merely by holding the privilege on the node.

20. (Original) The system of claim 1 wherein the holder does not hold a privilege

on a descendant of the node merely by owning the privilege on the node.

21. (Original) The system of claim 1 wherein the holder holds a different

privilege on a parent of the node.

22. (Original) The system of claim 21 wherein the holder is privileged to request

a mutation relating to the parent.

(Original) The system of claim 22 wherein the mutation is to remove the 23.

node.

24. (Original) The system of claim 1 wherein multiple holders hold the privilege.

25 (Original) The system of claim 1 wherein the holder of the privilege is a

privilege group.

26 (Original) The system of claim 25 wherein the privilege group has multiple

members

27. (Original) The system of claim 26 wherein the member is an application

program.

4

Docket No.: 612188004US

28. (Original) The system of claim 26 wherein the member is an operator of an application program.

- 29. (Original) The system of claim 26 wherein the member is a client computing device.
- 30. (Original) The system of claim 1 wherein the handling includes returning a message comprising an indication of mutations to users of the system.
- 31. (Original) The system of claim 30 wherein the message includes only information for which a recipient of the message holds an appropriate privilege.
- (Previously Presented) A method in a distributed computing environment for 32 sharing a hierarchical document, the hierarchical document having a node, comprising:
 - receiving an indication of a privilege for the node, the privilege indicating access rights for the node and determined based on access rights for another node of the hierarchical document, the indication including a holder of the privilege; receiving an access request to the node from a requestor; and
 - handling the received access request, wherein the handling includes determining whether the requestor is a holder of an appropriate privilege for the received access request.
- 33. (Original) The method of claim 32 wherein the holder of the privilege is a user.
- (Original) The method of claim 33 wherein the holder is an application 34 program.

Docket No.: 612188004US

35. (Original) The method of claim 33 wherein the holder is an operator of an

application program.

36. (Original) The method of claim 32 wherein the holder is a client computing

device.

37. (Original) The method of claim 32 wherein the system receives an indication

of the holder from an operating system.

38 (Original) The method of claim 32 wherein the system authenticates the

holder.

39. (Original) The method of claim 32 wherein the received access request is a

mutation relating to a node.

40 (Original) The method of claim 39 wherein the indication of an access

request indicates the node.

(Original) The method of claim 39 wherein a privilege is appropriate for the

received access request when the mutation and privilege are both Read.

(Original) The method of claim 39 wherein a privilege is appropriate for the 42.

received access request when the mutation and privilege are both Insert.

43 (Original) The method of claim 39 wherein a privilege is appropriate for the

received access request when the mutation and privilege are both Update.

44. (Original) The method of claim 39 wherein a privilege is appropriate for the

received access request when the mutation and privilege are both Delete.

6

- 45. (Original) The method of claim 39 wherein a privilege is appropriate for the received access request when the mutation is Read and the privilege is Insert.
- (Original) The method of claim 32 wherein the holder holds multiple privileges.
- 47. (Original) The method of claim 32 wherein the holder holds the privilege on descendants of the node merely by holding a privilege on the node.
 - 48. (Original) The method of claim 47 wherein the privilege is Delete.
- 49. (Original) The method of claim 32 wherein the holder holds a different privilege on attributes of the node.
- 50. (Original) The method of claim 49 wherein the privilege is Insert and the different privilege is Read.
- 51. (Original) The method of claim 49 wherein the holder does not hold the privilege on descendants of the node merely by holding the privilege on the node.
- 52. (Original) The method of claim 32 wherein the holder does not hold a privilege on a descendant of the node merely by owning the privilege on the node.
- 53. (Original) The method of claim 32 wherein the holder holds a different privilege on a parent of the node.
- 54. (Original) The method of claim 53 wherein the holder is privileged to request a mutation relating to the parent.

Application No. 10/817,045

Reply to Office Action of May 30, 2007

55. (Original) The method of claim 54 wherein the mutation is to remove the

Docket No.: 612188004US

node.

56. (Original) The method of claim 54 wherein the mutation is to remove an

attribute.

57. (Original) The method of claim 32 wherein multiple holders hold the

privilege.

58. (Original) The method of claim 32 wherein the holder of the privilege is a

privilege group.

59. (Original) The method of claim 58 wherein the privilege group has multiple

members.

60. (Original) The method of claim 59 wherein the member is an application

program.

61. (Original) The method of claim 59 wherein the member is an operator of an

application program.

62. (Original) The method of claim 59 wherein the member is a client computing

device.

63. (Original) The method of claim 32 wherein the handling includes returning a

message comprising an indication of mutations to users of the system.

64. (Original) The method of claim 63 wherein the message includes only

information for which a recipient of the message holds an appropriate privilege.

8

- 65. (Original) The method of claim 32 wherein the access request identifies the node with a unique identification.
- 66. (Original) The method of claim 32 wherein the access request is received as a message.
- 67. (Original) The method of claim 66 wherein the message is represented in XML.